

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-20 (Cancelled)

Claim 21 (Currently Amended): A cell that has been transformed with ~~one or more~~ three polynucleotides which encode ~~at least~~ three different fusion proteins[[,]]

~~wherein each fusion protein comprises a different fluorescent protein and different polypeptide involved with cell division,~~

~~wherein each of the fusion proteins provides a different type of fluorescence so that three or more types of cell structures can be fluorescently observed,~~

~~wherein at least one of the polypeptides involved in cell division is a spindle polypeptide selected from the group consisting of α -tubulin and β -tublin,~~

wherein said fusion proteins are α -tubulin-GFP, histone H3-CFP and Importin α -DsRed, and

wherein said fusion proteins are expressed at a level sufficient to permit their visualization throughout the process of cell division.

Claims 22-42 (Cancelled)

Claim 43 (Withdrawn, Currently Amended): A method for making a cell that may be division-visualized comprising:

transforming a cell with ~~one or more~~ three polynucleotides which encode ~~at least~~ three different fusion proteins[[,]]

~~wherein each fusion protein comprises a different fluorescent protein and different polypeptide involved with cell division,~~

~~wherein each of the fusion proteins provides a different type of fluorescence so that three or more types of cell structures can be fluorescently observed,~~

~~wherein at least one of the polypeptides involved in cell division is a spindle~~

~~polypeptide selected from the group consisting of α -tubulin and β -tublin,~~

wherein said fusion proteins are α -tubulin-GFP, histone H3-CFP and Importin α -DsRed, and

wherein said fusion proteins are expressed at a level sufficient to permit their visualization ~~through~~ during the process of cell division.

Claim 44 (Withdrawn, Currently Amended) A method for visualizing cell division comprising:

maintaining a cell under conditions suitable for cell division, and fluorescently visualizing said cell;

wherein said cell has been transformed with ~~one or more~~ three polynucleotides which encode at least three different fusion proteins[[,]]

~~wherein each fusion protein comprises a different fluorescent protein and different polypeptide involved with cell division,~~

~~wherein each of the fusion proteins provides a different type of fluorescence so that three or more types of cell structures can be fluorescently observed,~~

~~wherein at least one of the polypeptides involved in cell division is a spindle polypeptide selected from the group consisting of α -tubulin and β -tublin,~~

wherein said fusion proteins are α -tubulin-GFP, histone H3-CFP and Importin α -DsRed, and

wherein said fusion proteins are expressed at a level sufficient to permit their visualization ~~through~~ during the process of cell division.

Claim 45 (New): A cell that has been transformed with at least three polynucleotides which encode at least three different fusion proteins involved with cell division,

wherein three of said fusion proteins are α -tubulin-GFP, histone H3-CFP and Importin α -DsRed, and

wherein said fusion proteins are expressed at a level sufficient to permit their visualization during the process of cell division.

Claim 46 (New): A method for visualizing cell division comprising:

maintaining the cell of Claim 45 under conditions suitable for cell division and fluorescently visualizing said cell.

Claim 47 (New): A method for making the cell of Claim 45 comprising:

transforming a cell with at least three polynucleotides which encode at least three different fusion proteins involved with cell division, wherein three of said fusion proteins are α -tubulin-GFP, histone H3-CFP and Importin α -DsRed, and

recovering or isolating a cell wherein said fusion proteins are expressed at a level sufficient to permit their visualization during the process of cell division.